United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: THERMAL STORAGE AND TRANSPORT

and was amended on

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code

and as amended on

filed

(if applicable) (in the case of a PCT-filed

STATUS (patented, pending, abandoned)

(if any), which I have reviewed and

The specification of which
a. ⋈ is attached hereto
b. ⋈ was filed on a

as application serial no.

application) described and claimed in international no.

for which I solicit a United States patent.

of Federal Regulations, § 1.56 (attached hereto).

and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER

any amendment referred to above.

inventor's certificate listed below date before that of the application	v and have also identified below n on the basis of which priority	v any foreign application for p	foreign application(s) for patent of patent or inventor's certificate having	; a filing
a. 😥 no such applications have	been filed.	•		
no such applications have	en filed as follows:			
1.1.				
is FOR	EIGN APPLICATION(S), IF ANY,	CLAIMING PRIORITY UNDER	35 USC § 119	
COUNTRY	APPLICATION NUMBER	DATE OF FILING	DATE OF ISSUE	
ļ.		(day, month, year)	(day, month, year)	i
IJ				
1 1000 1 1000 1 1000				
	EIGN APPLICATION(S), IF ANY,	FILED BEFORE THE PRIORITY	APPLICATION(S)	
COUNTRY	APPLICATION NUMBER	DATE OF FILING	DATE OF ISSUE	
12		(day, month, year)	(day, month, year)	

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in

information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application

the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material

DATE OF FILING (day, month, yean)

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	Conrad, Timothy R.	Reg. No. 30,164	Nelson, Albin J.	Reg. No. 28,650
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	Daignault, Ronald A.	Reg. No. 25,968	Pollinger, Steven J.	Reg. No. 35,326
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	DiPietro, Mark J.	Reg. No. 28,707	Schuman, Mark D.	Reg. No. 31,197
'n	Edell, Robert T.	Reg. No. 20,187	Schumann, Michael D.	Reg. No. 30,422
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	Hassing, Thomas A.	Reg. No. 36,159	Vandenburgh, J. Derek	Reg. No. 32,179
· 177	Hillson, Randall A.	Reg. No. 31,838	Welter, Paul A.	Reg. No. 20,890
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I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant, Gould, Smith, Edell, Welter & Schmidt to the contrary.

Xu, Min S.

Please direct all correspondence in this case to Merchant, Gould, Smith, Edell, Welter & Schmidt at the address indicated below:

Reg. No. 37,160

Merchant, Gould, Smith, Edell,
Welter & Schmidt
3100 Norwest Center
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Minneapolis, MN 55402-4131

i hereby declare that all statements may be ein of my own knowledge are true and that statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name Of Inventor Residence City Asheboro Date: Post Office Address Full Name Citizenship Abeboro Residence City Asheboro I Post Office Address I 108 Crapbrook Way Signature of Inventor 201: Family Name Abe City State or Foreign Country North Carolina Post Office Address First Given Name Full Name Citizenship Residence & Citizenship City State & Zip Code/Country Asheboro Date: 9 - 3 - 96 Full Name Citizenship City State or Foreign Country North Carolina Country of Citizenship U.S.A. Signature of Inventor 202: City State & Zip Code/Country North Carolina City State & Zip Code/Country North Carolina City State & Zip Code/Country North Carolina City State & Zip Code/Country NC 274107USA Date: Full Name Of Inventor Full Name Full Name Of Inventor Full Name Of Inventor Full Name Of Inventor Full Name Full Name Full Name First Given Name First Given Name First Given Name Second Given Name First Given Name Second Given Name First Given Name First Given Name Second Given Name First Given Name First Given Name Second Given Name First Given Name First Given Name Second Given Name		
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Asheboro Asheboro Country of Citizenship L.S.A. Signature of Inventor 201: Post Office Address I108 Crapbrook Way Signature of Inventor 201: Post Office Address Full Name Abe City Asheboro Country of Citizenship Asheboro Date: 9 - 3 - 96 Full Name Abe City Address City Country of Citizenship Full Name Citizenship Full Name City Address City Country of Citizenship Full Name City Address City Country of Citizenship Full Name First Given Name City Country of Citizenship Full Name Full Name City Full Name Full Name First Given Name City Country of Citizenship Full Name Full Name City Country of Citizenship Full Name Full Name City Country of Citizenship Full Name Full Name City Country of Citizenship City Country of Citizenship Country of Citizenship Country of Citizenship Country of Citize		
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Full Name Of Inventor Family Name Of Inventor First Given Name First Given Name Second Given Name Country of Citizenship Post Office Address City State or Foreign Country Country of Citizenship City State & Zip Code/Country Signature of Inventor 203: Full Name Of Inventor First Given Name First Given Name Second Given Name		
Full Name Of Inventor Residence & City & Citizenship Post Office Address Post Office Address Full Name Of Inventor Family Name First Given Name Second Given Name Country of Citizenship City State & Zip Code/Country Date: Full Name Of Inventor Full Name Of Inventor Family Name Family Name First Given Name Second Given Name Second Given Name	Date: 9-3-96	
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Signature of Inventor 205: Date:		

§ 1.56 Duty to disclose information erial to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim;

 (2) It refutes, or is inconsistent with, a position the applicant takes in:

 (i) Opposing an argument of unpatentability relied on by the Office, or

 (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application:
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.